

A Description of the Pimienta or Jamaica Pepper-Tree, and of the Tree that bears the Cortex Winteranus: Communicated by Hans Sloane, M. D. and Reg. Soci. S.

Myrtus arborea foliis laurinis aromatica: five Pimienta, Jamaica-Pepper, or All-Spice-Tree.

THis Tree has a Trunk as thick as ones thigh, rising streight about 30 feet high, covered with an extremely polite or smooth Skin of a gray colour, and branched out on every hand, having the ends of its Twigs set with Leaves of several sizes, the largest being 4 or 5 inches long, and 2 or 3 broad in the middle where broadest, and whence it decreases to both extrems ending in a point, smooth, thin, shining, without any incisures, of a deep green colour, and standing on inch-long footstalks; when bruised very odoriferous, and in all things like the Leaves of Bay-tree. The ends of the Twigs are branch'd into bunches of Flowers, each footstalk sustaining a Flower made up of four herbaceous of pale green *Petala* bowed back or reflected downwards, within which are many *Stamina* of the same colour. To these follows a bunch of crowned or umbilicated Berries (the Crown being made up of four small *Foliola* or Leaves) which are bigger when ripe than Juniper-berries, at first when small, greenish; but when ripe, they are black, smooth and shining, containing in a moist, green, aromattick and biting Pulp two large *Acini* or Seeds, separated by a Membrane lying between them, each whereof is a Hemisphere, and both join'd make a Globe or Spherical (appearingly one) *Acinus*, whence *Clusius* makes in one Seed divisible into two parts.

It grows on all the hilly parts of the Island of *Jamaica*, but chiefly in the North-side thereof; and where-ever
these

these Trees grow, they are generally left standing when other Trees are fell'd, or they are sometimes planted where they never grew, because of the great profit from the cur'd Fruit sent in great quantities yearly into *Europe*.

It flowers in *June*, *July* and *August*, but in several places sooner or later, according to their situation and different Season for Rains : and after it flowers the Fruit soon ripens ; but 'tis to be observ'd, that in clear'd open Grounds, 'tis sooner ripe than in thicker Woods.

There is no great difficulty in the curing or preserving of this Fruit for use, 'tis for the most part done by the *Negro's* ; they climb the Trees, and pull off the Twigs with the unripe green Fruit, and afterwards carefully separates the Fruit from the Twigs, Leaves, and ripe Berries ; which done, they expose them to the Sun from its rising to setting for many days, spreading them thin on cloaths, turning them now and then, and carefully avoiding the dews (which are there very great.) By this means they become a little wrinkled or rugous, dry, and from a green change to a brown colour, and then they are fit for the Market, being of different sizes, but generally of the bigness of black Pepper, something like in smell and taste to Cloves, Juniper-berries, Cinamon and Pepper, or rather having a peculiar mixt smell, somewhat akin to them all, whence the name of *All-Spice*. The ripe Berries are very carefully separated from those to be cured, because their wet and plenteous Pulp renders them unfit for Cure. Whence these Berries always coming unripe dryed into *Europe*, has been the occasion of Naturalists thinking it to be *fructu umbilicato sicco*. The more fragrant and smaller they are, they are counted the better.

This Fruit with water distilled *per Vesicam*, yields a very odoriferous Chymical Oyl sinking to the bottom of water like Oyl of Cloves. It may deservedly be counted

ted the best and most temperate, mild and innocent of common Spices, and fit to come into greater use, and to gain more ground than yet it hath of the *East-India* Commodities of this kind, almost all of which it far surpasses by promoting the digestion of Meat, attenuating tough Humours, moderately heating, strengthening the stomach, expelling Wind, doing those friendly offices to the Bowels we generally expect from Spices.

It is now commonly sold by Druggists for *Carpobalsamum*, which I suppose came from *Hernandez*, who says it may be its *succedaneum*; but it is not that Fruit, but seems more fragrant and less adstringent and balsamick. *Clausius* says, that it takes away, if chew'd, a stinking Breath. *John de Barrios* tells us, 'tis one of the Ingredients of Chocolate in *New-Spain*; and *Franciscus Uria*, who brought it from *New-Spain* and gave it to *Redi*, said it was there commended against the Epilepsie and *Gutta serena*, which he in divers persons tryed, but without success; but he at the same time says, he thinks it a good Stomachic and Cephalick Medicine moderately given, *Exper. Nat. pag. 132.*

It has been taken by *Clusius* for *Pliny's Caryophyllon*, and by others for *Amomum*: But 'tis not likely that it was known to the Ancients, not being known to grow in the *East*, but *West-Indies*, whence it was brought into *England*, and sent to *Clusius*, who first describ'd and figured it, giving it this name *Amomum quorundam*; An *Caryophyllon Plinii*, *Exor. p. 17.* from whence came that in *Gerard*, *Amomum quorundam, forte Caryophyllon Plinii*, p. 1610. and that of *Parkinson*, *Amomum aliud quorundam, & Caryophyllon Plinii à Claudio suspicatum*, p. 1567. likewise that of *Caryophyllus aromaticus fructu rotundo*, *E. B. p. 411.* & *Amomum quorundam odore Caryophilli*, *J. B. Tom. 2. p. 194.* *Redi* in his *Exper. Nat. p. 132.* speaks of this, and figures it under the name of *Piper Chiapæ*. And *Dr. Trapham* in his Discourse of the
State

State of Health in the Island of *Jamaica*, calls it the Bay-tree or Spicy Piemento, p. 38. And Dr. *Grewo* in his *Musæum Regalis Societatis* calls these, being very large, Aromatick Indian Berries, or *Cocculi Indi aromatici*, p. 211.

It is also very likely that *Hernandes* does describe this under the name of *Xocoxitl*, seu *Piper Tavaſci*, p. 30. his Description agreeing in every thing only the Flower, which muſt, if he rightly describes it, make it different ; for he makes it to have a Scarlet Flower like to the Pomegranate, ſmelling like Orange-flowers, no way agreeing to this. And *Ximenes* in the Spaniſh Hiſtory of *Hernandez* printed at *Mexico*, deſcribes it the ſame way by the name of *Xocoxitl* o *Pimienta de Tavaſca*, fol. 2. ſo that I remain in doubt, but am apt to believe it the ſame, only ill deſcribed by this Author.

I am likewiſe, on account of an ill deſcription, very much at a loſs to know whether this be the Tree, *Piſo* deſcribes in the firſt Edition of his Book, p. 98. 1648. under the name of *Ankuiba miri*.

Arbor Baccifera, laurifolia, aromatica, Fructu viridi calyculato ramoſo.

Wild Cinamon-tree, commonly but falſly called Cortex Winteranus.

THis Tree has a Trunk about the thickneſs of ones Thigh, riſing to about 20 or 30 foot high, having many Branches and Twigs hanging downwards, making a very comely Top. The Bark conſiſts of two parts, one outward, and another inward. The outward Bark is thin as a mill'd Shilling, of a whitish Aſh or gray colour, with ſome whiter ſpots here and there on it,

and several shallow Furrows of a darker colour, running variously through it making it rough, of an aromatick taste. The inward Bark is much thicker than Cinamon, being as thick as a mill'd Crown-piece, smooth, of a whiter colour than the outward, of a much more biting and aromatick taste, something like that of Cloves, and not glutinous like Cinamon, but dry and crumbling between the teeth. The Leaves come out near the ends of the Twigs without any order standing on inch-long foot-stalks, they are each of them two Inches long, and one Inch broad near the end where broadest, and roundish, being narrow at beginning, from whence it augments in breadth to near its end, of a yellowish green colour, shining and smooth, without any incisures about its edges, and somewhat resembling the Leaves of Bay or *Laurocerasus*. The ends of the Twigs are branched into bunches of Flowers, standing something like Umbels, each of which has a foot-stalk, on the top of which is a *Calix* made up of some *Foliola*, in which stand five Scarlet or purple *Petala*, within which is a large *Stylus*. To these follow so many *Caliculated* Berries of the bigness of a large Pea, roundish, green, and containing, within a mucilaginous pale-green thin Pulp, four black shining Seeds or *Acini*, of an irregular figure.

All the parts of this Tree, when fresh, are very hot, aromatick, and biting to the taste, something like Cloves, which is so troublesome as sometimes to need a remedy from fair Water.

It grows in the Low-land or *Savanna* Woods very frequently, on each side of the Road between *Passage-Fort* and the Town of *St. Jago de la Vega* in *Jamaica*, in *Antigua*, and other the *Caribbe* Islands.

The Bark of this Tree is what is chiefly in use, both in the Plantations of the English between the Tropicks, in the *West-Indies*, and in *Europe*, and is without any difficulty cured by only cutting off the Bark, and letting it dry in the shade. It

It is in use in the *West-Indies* by the more ordinary sort of People in place of all other Spices, being thought very good to consume the immoderate humidities of the Stomach, help Digestion, expel Wind, &c.

It is likewise as well there as in *Europe* thought a very good Remedy against the Scurvey, and to cleanse and invigorate the Blood, being in *London-Druggists* and *Apothecaries* Shops used for those purposes, under the name of *Cortex Winteranus*, which it is not, that being different (as may appear from the Descriptions) but may very well supply its place: it is in the *West-Indies* mixed and given with Steel, and other Medicines; but if the Patient be any way of a hot Constitution, it does more harm than good, being very warm.

Rum, a vinous Spirit drawn from Moloffus or bad Sugar fermented with Water, if it be mixed with some of this Bark, loses in part its loathsome empyreumatick Smell.

This Bark if mixed with Water, and distilled *per Viscam*, yields an aromack Oil sinking to the bottom of Water like Oil of Cloves, with some small quantity of which it being mixed has sometimes been sold for true Oil of Cloves.

The first Author I find to mention this was *Peter Martyr* in *Decad. Ocean*, under the name of *Cortex Cinnamonæ saporem, Gingiberis amaritudinem & Caryophylli suavem odorem præ se ferens*. *Nicolaus Monardes* was the next, who describes this under the name of *Lignum Aromaticum*, from whom the *Hist. Ludg.* took the same, and *Clusius* in this Comment on this Author corrects him, giving it the name of *Lignum seu potius Cortex Aromaticus*, *Exot. p. 324. & Johannes Bauhinus, Lignum Aromaticum seu potius Cortex Monard. Hist. pl. tom. 1. p. 460.*

By the Description, &c. of another Bark, in Authors under the name of White Cinamon I question not, it is the same with this, every thing agreeing.

This

This is therefore

Canella alba quorundam. Clus. Exot. p. 324. I. B. p. 461.

Canella alba Park. p. 1581.

Canella alba ex arbore, Ejusdem *ibid.*

Cinamomum five *Canella tubis minoribus alba.* C. B. p. 409.

It is likewise what *Linschoten* in his Description of *America*, translated into French gives an account of, as I suppose from *Peter Martyr*, under the name of *Arbre ou les Pigeons nichent*; and what *Dr. Trapham* in his Discourse of the State of Health of *Jamaica*, calls *Winter-Bark*, or *West-Indian Cinamon-Tree* p. 38. *Hernandez*, p. 43. and *Ximenes* who publish'd his History at *Mexico* in Spanish, fol. 9. likewise describe this under the name of *Caninga*.

It may be doubted whether this be *Ascopo* of *Hariot*, which he mentions p. 24. of his Latin Edition of his Voyage by *Theodore de Bry*, and by *Hakluyt* in his Collection of Voyages, p. 275. of *Vol. III.*

Thus far this most excellent Botanist; who was likewise pleas'd to communicate the elegant Figures of these Plants hereto annexed, by which the Reader may see what may be hoped in Natural History from so Curious a Hand.

An Account of the Circulation of the watry Vapours of the Sea, and of the Cause of Springs, presented to the Royal Society. By E. Halley.

SOME time since, I shewed an Experiment of the Quantity of Water rais'd in Vapour from the surface of the Sea in a day's time, which was so far approved by some honourable Members of this Society, that I have received their Command to prosecute those Enquiries, and particularly in relation to the Method used by Nature to return the said Vapours again into the Sea, which
is

Myrtus arborea, folijs laurinis, aromatica.

Pimienta or Iamaica-pepper-tree.



*Arbutus baccifera, laurifolia, aromatica,
fructu viridi calyculato racemoso.*

Cortex Winteranus or wild-Cinamon-tree.